Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. - 2. (Cancelled)

3. (Currently Amended) A radio communication system, comprising:

a base station of a first radio communication system;

a base station of a second radio communication system including a cell being in close proximity to or overlapping a cell for communications by the base station of the first radio communication system, and operating asynchronous to the base station of the first radio communication system; and

a mobile station capable of communications with both the first and second radio communication systems, wherein

the mobile station includes:

a radio section that receives a radio wave from each of the first and second radio communication systems; and

a system information estimation section that scans a plurality of radio frequencies to determine a frequency of the radio wave received from the second radio communication system, determines a ~~transmission mode~~communication mode of the second radio communication system based on the determined frequency, and ~~outputs~~ transmits the determined ~~transmission mode~~communication mode as system estimation information to the base station in the first radio communication system,

the base station of the first radio communication system includes:

a storage section that stores the system estimation information provided by the mobile station, and

wherein ~~a switching is made between separate radio communication systems by informing the system estimation information from~~ the base station of the first radio communication system transmits the system estimation information to the mobile station in the cell ~~for communications by the base station of~~, and the mobile station switches from the first radio communication system to the second radio communication system based on the system estimation information.

4. (Currently Amended) The radio communication system according to claim 3, wherein:

the mobile station includes a position detection section that detects position information of the mobile station,

the base station of the first radio communication system includes a storage section that stores the system estimation information and the position information ~~provided~~ transmitted by the mobile station, and

wherein ~~a switching is made between the separate radio communication systems by informing the system estimation information and the position information from~~ the base station of the first radio communication system transmits the stored system estimation information to the position of the mobile station in the cell ~~for communications by the base station of the first radio communication system~~, and the mobile station switches from the first radio communication system to the second radio communication system based on the system estimation information.

5. - 15. (Cancelled)

16. (Currently Amended) A mobile station capable of communications with both a base station of a first radio communication system, and a base station of a second radio communication system including a cell being in close proximity to or overlapping a cell for communications by the base station of the first radio communication system, and operating asynchronous to the base station of the first radio communication system, comprising:

a radio section that receives a radio wave from each of the first and second radio communication systems; and

a system information estimation section that scans a plurality of radio frequencies to determine a frequency of the radio wave received from the second radio communication system, determines a ~~transmission~~communication mode of the second radio communication system based on the determined frequency, and ~~outputs~~ transmits the determined ~~transmission~~communication mode as system estimation information to the base station of the first radio communication system, wherein

~~for communications with the base station of the first radio communication system, a switching is made between separate radio communication systems by informing the system estimation information to the base station of the first radio communication system~~ the mobile station switches from the first radio communication system to the second radio communication system based on the system estimation information transmitted by the base station of the first radio communication system back to the mobile station.

17. (Currently Amended) The mobile station according to claim 16, comprising a position detection section that detects position information of the mobile station, wherein

~~for communications with the base station of the first radio communication system, a switching is made between the separate radio communication systems by informing~~ the mobile station transmits ~~the system estimation information and~~ the position information to the base station of the first radio communication system, and the mobile station switches from the first radio communication system to the second radio communication system based on the system estimation information, the system estimation information transmitted by the base station of the first radio communication system to the mobile station in response to receiving the position information.

18. (Original) The mobile station according to claim 17, wherein

the position detection section detects absolute position information.

19. (Original) The mobile station according to claim 17, wherein

the position detection section detects relative position information from the base station.

20. (Currently Amended) A mobile station capable of communications with both a base station of a first radio communication system, and a base station of a second radio

communication system including a cell being in close proximity to or overlapping a cell for communications by the base station of the first radio communication system, and operating asynchronous to the base station of the first radio communication system, comprising

a radio section that receives a radio wave from each of the first and second radio communication systems;

a system information estimation section that scans a plurality of radio frequencies to determine a frequency of the radio wave received from the second radio communication system, determines a ~~transmission~~communication mode of the second radio communication system based on the determined frequency, and ~~outputs~~ transmits the determined ~~transmission~~communication mode as system estimation information to the base station of the first radio communication system; and

a storage section that stores the system estimation information ~~output from the system information estimation section~~, wherein

~~a switching is made between separate radio communication systems by~~the mobile station ~~storing~~ stores the system estimation information in the storage section when no communications are going on with the base station of the first radio communication system, and ~~by informing~~transmits the system estimation information stored in the storage section to the base station of the first radio communication system when communications ~~are through~~ with the base station of the second radio communication system are complete, and the mobile station switches from the first radio communication system to the second radio communication system based on the system estimation information transmitted by the base station of the first radio communication system back to the mobile station.

21. (Currently Amended) The mobile station according to claim 20, comprising a position detection section that detects position information of the mobile station, wherein

~~a switching is made between the separate radio communication systems by~~ the mobile station ~~storing~~stores the system detection information in the storage section when no communications are going on with the base station of the first radio communication system, and ~~by informing~~ transmits the system estimation information and the position information stored in the storage section to the base station of the first radio communication system when communications are through with the base station of the second radio communication system,

and the mobile station switches from the first radio communication system to the second radio communication system based on the system estimation information, the system estimation information transmitted by the base station of the first radio communication system to the mobile station in response to receiving the position information.

22. (Original) The mobile station according to claim 21, wherein

the position detection section detects absolute position information.

23. (Original) The mobile station according to claim 21, wherein

the position detection section detects relative position information from the base station.

24. (Previously Presented) The radio communication system according to claim 4, wherein

the position detection section detects absolute position information.

25. (Previously Presented) The radio communication system according to claim 4, wherein

the position detection section detects relative position information from the base station.

26. - 29. (Cancelled)